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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/039,299 01/02/2002		Steven J. Harrington	D/A1096 XER 2 0436 2159			
7590 01/21/2004			EXAM	EXAMINER		
Joseph D. Dreher			RAHMJOO, MANUCHER			
Fay, Sharpe, Fa	gan.					
Minnich & Mcl			ART UNIT	PAPER NUMBER		
1100 Superior A	Avenue, 7th Floor		2676			
Cleveland, OH	44114-2518		DATE MAILED, 01/21/200.	. 1		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicatio	n No.	Applicant(s)			
		10/039,29	9	HARRINGTON, STEVEN J.			
	Office Action Summary	Examiner		Art Unit			
		Mike Rahr		2676			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - External after - If the control of the contro	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a top period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no ever reply within the statu- iod will apply and will atute, cause the appli-	nt, however, may a reply be time tory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)⊠	1) Responsive to communication(s) filed on 02 January 2002.						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Th	his action is no	n-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
5)□ 6)⊠ 7)□	4) ⊠ Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-21 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
10)	The specification is objected to by the Exam The drawing(s) filed on is/are: a) a Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr The path or declaration is objected to by the	accepted or b)[the drawing(s) bo rection is require	e held in abeyance. See ed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120							
12)	Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Burd See the attached detailed Office action for a lacknowledgment is made of a claim for domestince a specific reference was included in the 17 CFR 1.78. Acknowledgment is made of a claim for domestince as a pecific reference was included in the 17 CFR 1.78. Capture Translation of the foreign language Acknowledgment is made of a claim for domestince was included in the first sentence of the foreign language and the foreign language and the first sentence of the first sentence	ents have beer ents have beer oriority docume reau (PCT Rule list of the certifestic priority une first sentence provisional appestic priority un	n received. In received in Application received in Application ts have been received 17.2(a)). It is described to the specification of the specification of the specification for the specification of the specification.	on No ed in this National Stage ed. e) (to a provisional application) in an Application Data Sheet. eeived. and/or 121 since a specific			
Attachmer	nt(s)		_				
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s			(PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Claim Objections

Claim 1 is objected to because of the following informalities:

As per claim 1 line 10 on page 15 recites"...a single vertice...". The examiner assumes the word "vertice" is mis- spelled and it is "vertex".

Appropriate correction of this and other possible claims is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2- 5 and 10- 14 and 19- 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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As per claim 2 line 20 on page 15 recites"...maximum pixel value...". It is not clear what kind of value is being addressed and whether this value represents just a number of pixels or the number of attributes associated with the pixels.

Claims 3- 5 and 10- 14 and 19- 20 have similar rejections.

Further clarification of claims 3- 5 and 10- 14 and 19- 20 are respectfully requested.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1- 6, 9- 14, and 17- 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Naegle et al(US Pub 2001/0033287), hereinafter, Naegle.

As per claims 1, 9 and 18 Naegle teaches scanning the array to determine the pixel values see for example figures 4- 5 and 8- 10 and page17 paragraph [0191]; segmenting the array into blocks of the pixel values see for example figures 4- 5, 8- 10, and 12 and paragraphs[0160] and [0194]; performing an associative operation on the pixel values of each block to determine properties of the each block see for example paragraphs [0076] and [0162]; storing the properties of the each block in a table see for

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example figures 3 and 12 and paragraph [0162] and [0224]; providing a window defining a fixed size region of the image, the window having vertices and being configured such that a single vertice at most will be encompassed by any given block having portions within the fixed size region see for example paragraphs [0233] and [0235](graphics data comprising polygon information i.e., vertex data which is designed to use default sample mode as well as alternative sample mode such as one sample per pixel); determining which portions of which blocks are within the fixed size region see for example paragraph[0140](bin position corresponding to particular positions on the dislay and to the pixel centers) and figures 15- 17; selecting a property for each portion of each block within the fixed size region from the table based on the determining of which portions of which blocks are within the fixed size region and locations of the vertices of the window see for example paragraph [0221](window ID of each window attached to each sample or bin with color attributes); and performing the associative operation on the selected properties to determine an overall property for the fixed size region see for example paragraphs [0162] and [0224] (interpolation based upon the color and texture map information associated with the vertices of the triangle and then storing the sample in sample buffer).

As per claims 2- 3, and 10- 11 Naegle teaches performing the associative operation on the pixel values comprises determining maximum and minimum pixel v values see for example paragraph [0185](filtering which ensures that the samples located the closest to the pixel center will contribute the most (maximum), while pixels located the far from the pixel center will contribute less (minimum) to the final output

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pixel values which automatically performs anti-aliasing by smoothing any abrupt changes in the image (e.g., from a dark line to a light background).

As per claims 4- 5, 12- 13 and 19- 20 Naegle teaches performing the associative operation on the selected properties comprises performing an operation to determine a maximum and a minimum value see for example paragraph [0184] (the weighted sample may then be summed with a running total to determine the final output pixel's un-normalized (and pre-gamma correction) color value which may be appearing too bright (minimum value of a selected property) or too dark (maximum value of a selected property) by compensating for gain introduced by the convolution process).

As per claims 6, and 14 Naegle teaches providing a window defining a fixed size region of the image comprises providing a window having a rectangular shape see for example page 17, paragraph [0191].

As per claim 21 Naegle teaches the complex window is an annulus see for example figures 14 and 17.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7, 8, 15, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Naegle et al(US Pub 2001/0033287), hereinafter, Naegle.

As per claims 7, 8, 15, and 16 Naegle teaches providing a window defining a fixed size region of the image comprises providing a window of rectangular shape.

However, Naegle does not teach an octagonal or hexagonal shape.

It would have been made obvious to one of ordinary skilled in the art at the time the invention was made to incorporate octagonal or hexagonal shape window based on design choice and the characteristics required by the user to do the specific tasks assigned by the user and therefore make it a versatile device.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure; US Pub 2001/0033287, and US Patent 5,086,496, 5,940,080, 6,232,981, and 5,900,860.

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Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Rahmjoo whose telephone number is (703) 305-5658. The examiner can normally be reached on 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on (703) 308-6829. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.

Mike Rahmjoo

January 13, 2004

Kee M. Tung Primary Examiner